

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DKW

Applicant: Kenneth R Tinsley et al.

Title: PULSE SHAPING SIGNALS FOR ULTRAWIDEBAND COMMUNICATION

Docket No.: 884.B69US1

Serial No.: 10/815,171

Filed: March 31, 2004

Due Date: N/A

Examiner: Unknown

Group Art Unit: 2681

**MS Amendment**

Commissioner for Patents

P.O. Box 1450


Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ A return postcard.
- ☒ An Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and copies of 7 cited documents, including the International Search Report for corresponding PCT Application No. PCT/US2005/010179 (4 pgs.).

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
Customer Number 21186

By:   
Atty: John M. Dahl  
Reg. No. 44,639

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 5th day of August, 2005.

JAMES KANYUSIK  
Name

  
Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
(GENERAL)

S/N 10/815,171



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Keith R Tinsley et al.	Examiner:	Unknown
Serial No.:	10/815,171	Group Art Unit:	2681
Filed:	March 31, 2004	Docket:	884.B69US1
Title:	PULSE SHAPING SIGNALS FOR ULTRAWIDEBAND COMMUNICATION		
Assignee:	Intel Corporation	Customer Number:	21186

INFORMATION DISCLOSURE STATEMENT

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicant respectfully requests that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicant requests that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicant with the next official communication.

Several of the documents, listed on the attached 1449, were discovered as a result of a Search Report in Applicant's corresponding foreign patent application. Enclosed for the Examiner's information are copies of the Search Report and the cited foreign patent documents and other publication documents.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

## INFORMATION DISCLOSURE STATEMENT

Customer No.: 21186

Serial No :10/815,171

Filing Date: March 31, 2004

Title: PULSE SHAPING SIGNALS FOR ULTRAWIDEBAND COMMUNICATION

Assignee: Intel Corporation

Page 2

Dkt: 884.B69US1 (INTEL)

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicant's Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

KEITH R TINSLEY ET AL.

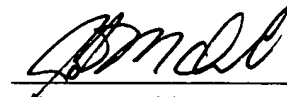
By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
Attorneys for Intel Corporation  
P.O. Box 2938  
Minneapolis, MN 55402  
(612) 349-9581

Date

Aug 5 05

By

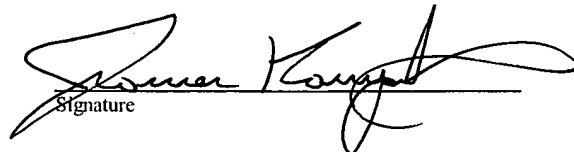


John M. Dahl

Reg. No. 44,639

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 5TH day of August, 2005.

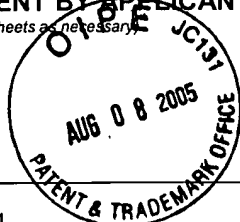
JAMES KANYSIK  
Name

  
Signature

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	10/815,171
Filing Date	March 31, 2004
First Named Inventor	Tinsley, Keith
Group Art Unit	2681
Examiner Name	Unknown

Sheet 1 of 1

Attorney Docket No: 884.B69US1

**US PATENT DOCUMENTS**

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
	US-2003/0052727 A1	03/20/2003	Komurasaki, H., et al.	07/12/2002

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T <sup>2</sup>
	WO-01/39451A1	05/31/2001	Harbin, L.	
	WO-01/93520A2	12/06/2001	Mccorkle, J. W.	

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"International Search Report for corresponding PCT Application No. PCT/US2005/010179", (Attorney Docket No. 884.B69WO1),(July 12, 2005),4 pgs.	
		CHUDOBIAK, M. J., et al., "Subnanosecond 300 V Diffused Step Recovery Diode", <a href="http://www.avtechpulse.com/papers/subnano/">http://www.avtechpulse.com/papers/subnano/</a> , (2004),6 pages	
		KRUGER, A., "Tunnel Diodes", ChipCenter Questlink - Passive/Active Components ( <a href="http://archive.chipcenter.com/eexpert/akruger/akruger059.html">http://archive.chipcenter.com/eexpert/akruger/akruger059.html</a> ), (2003), 3 pgs.	
		WU, Z., et al., "High Performance Ultra-Wide Bandwidth Systems via Novel Pulse Shaping and Frequency Domain Processing", <u>IEEE Conference on Ultra Wideband Systems and Technologies, 2002</u> , (May 21, 2002),53-58	
		ZIMMER, R. , et al., "A Simple Method of Generating UWB Pulses", <u>Eight IEEE International Symposium on Spread Spectrum Techniques and Applications - Programme and Book of Abstracts</u> , IEEE Piscataway, NJ, USA,(Aug. 30, 2004), 112-114	

**EXAMINER****DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional) <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached